<u>Claims</u>

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- 1. Material for cartilage-like material substitution comprising a fibre-reinforced from monomers polymerised hydrogel, whereby this contains 10 70 % (m/m) swellable fibres (based on the dry matter) and whereby 1 5 % (m/m) (based on the dry matter) of a substance that contains ionised groups has been added to said hydrogel.
 - 2. Material for cartilage-like material substitution according to Claim 1, wherein said hydrogel comprises a polymer based on hydroxyethyl methacrylate (HEMA).
 - 3. Material for cartilage-like material substitution according to Claim 1 or 2, wherein said substance containing ionised groups comprises methacrylic acid.
- 4. Material for cartilage-like material substitution according to Claim 3, 15 comprising 1 5 % (m/m) methacrylate.
 - 5. Material for cartilage-like material substitution according to one of the preceding claims, wherein said fibre comprises a fibre saturated in liquid.
- 20 6. Material for cartilage-like material substitution according to one of the preceding claims, wherein said fibre comprises a fibre based on polyurethane material.
 - 7. Prosthesis consisting of a material for cartilage-like material substitution according to one of the preceding claims.